OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/662,478C

DATE: ...

TIME: ...

Input ... : A:\seqlistsubstitute2.txt
Output ... : N:\CRF4\03122003\I662478C.raw

3 <110> APPLICANT: Venta, Patrick J.
4   Brewer, George J.
5   Vilnu, Yuzbasiyan-Gurkan
6   Schall, William D.
8 <120> TITLE OF INVENTION: DNA ENCODING CANINE VON WILLEBRAND FACTOR AND METHODS
9   OF USE
11 <130> FILE REFERENCE: CMV-1226CIPCUS
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/662,478C
C--> 13 <141> CURRENT FILING DATE: 2000-09-15
13 <150> PRIOR APPLICATION NUMBER: 09/132,652
14 <151> PRIOR FILING DATE: 1998-08-11
16 <150> PRIOR APPLICATION NUMBER: PCT/US99/18143
17 <151> PRIOR FILING DATE: 1999-08-10
20 <160> NUMBER OF SEQ ID NOS: 29
22 <170> SOFTWARE: PatentIn Ver. 2.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 680
26 <212> TYPE: DNA
27 <213> ORGANISM: Canis familiaris
28 <400> SEQUENCE: 1

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Output file : N:\CRF4\03122003\I662478C.raw

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57  tgctctcctg ccaggtgacc tccgcatcca ccacacatgt ataggctccg tgtgcctcat  1680
60  cgacttcgtg acgcccgcag cgctggcgga gcacctgct  1800
64  ctactcgtcc gacgccagct actctcttta cacagggtg  2100
65  ggcccgaggg gacgtgcaca tgcgctggcg ggagctgcgg  2160
66  ncagggaaag gtatactcac aatatgctac cccctacaac atgaatcttc tctcctcctc  2220
67  ttacccgag gaggactgca atgaggtcta cttaggaaga tgcttctccc cccagaggt  2280
68  gtacctagat gagaggggag attatgtgct caaggctcag tttcctatt actatgatga  2340
69  tgatctctt cagcccgaaa acatcttctc agaccatcac accatgtact actctgagga  2400
70  tggcttcatg cctgtacca caagtgaagg cctggaaagc atgctgccca accggatgct  2460
71  caagagccc cctgtcacc acaccaaaag gacctgtcc tatcgccc ccatgatcaa  2520
72  attggtatgt ccggtgata acccagaggc tgaaggactg gagtgtgcca aaacctacca  2580
73  gaattatgac ctgcattca tgacacagat ctgtgtctc aagctgcct gctgcaagtt  2640
74  catcatacga cctgaaaaca gttgtgtagc gctggaaaga tgtccctgct tccaccaagg  2700
75  ccaagaatac gatccaggag aaaccgtaa aatgattgct aacatttctg ttgtgtggaa  2760
76  ccgcaactga actgtacag accatgtcta taatcccact ttctctgcca tcaccatcc  2820
77  gcaatacctc acttcgacg cactcaagta cctgttcct tggtggtcc agtatatct  2900
78  gtgaacat tgctccggaa ctaacctgga cacctcctt atgtcgtgc taaaccagca  2940
79  atgcaactac cctctctga aatccaaaa gcagatcaca atcctgatg cagaagagca  3000
80  ...
81  ...
82  ...
83  ...  3240
84  ...
```

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103  agcccccaaat ttcgtcccct at tt ...                                   4440
104  tg ...                                                             4 ...
105  tgagaagaaa gc ...                                                  4 ...
106  tatcaactac ctctgtgacc ttgcccccga agcacctgcc cctactcacc acccccaat  4500
107  gc ...                                                            4560
108  ctcca ...                                                         4 ...
109  ctttaacaaa agcagggact tcatggagca gatgatcacc ccaatgaaca tgggccagga 4800
110  cacaatccac gt cacagtat tgtactact gtacatatg a ...          4 ...
111  cgagggcag tccaaggaca agctcctaca gcaggtgcag gctatcaat acagaggt g  4980
112  caacaagacc aacaatgacc tgcccctgca atacctgccc gaacacaact tctcgatcac 4980
113  ccagcgggac cgcagcaact tacctaaat gttcac... gc acac... acc...       5040
114  tgatgagatc aagaggatc ctggagacat ccagtggtg cccatcgggg tgggtccaca  5100
115  tgccaatgtc cagcagctca agaaggattcc ctcacccaat accccgtc tcatccatca 5160
116  ctttgagatg ctcctcggaa agcttcctga tctggtacca cacaggt t aatctggaga 5210
117  ggggctgcag atccccaccc tctccccac cccagattgc agccagccc tggatgtggt  5280
118  cctcctcctg aatacctctt ccagcatt agttcttac tttaataaaa taaagacctt  5340
119  caccaggct tttattcaa gaataatat aggaccccg ctccctaag tgtcggtact    5400
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121  tttactgag cttgttgaac ttatgcatca gcaagaa ccagcaaa ttgggatgc       5520
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125  agcccagctg agagccttgc cagtccaaa gactggctcc actatcgtaa agctccaacg 5760
126  aattcagagt ctcccactc tgccacct gccgaattcc ttcttccaca agctgtgctc   5820
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128  cacccttgcca gacaagtgcc acacagtaac ttgcctgcca gatggcaaga cttgctgaa  5940
129  aagtcatcac gtccacttca atcaccaaa aggacctttg tcctccata aacaggcac  6000
130  tctccagaata tatacacct gtacctgaaa gt cacct gc ... ... gt gcat ccacag  ...
131  ctctacccaa cacatcgtgc cctttgatgc gcacaaattcc agctgactg gcagctgtc  6120
132  gtatgtccta tttaaaaaca ataaacata cctcagctc attctccaca gtagtacctg 6180
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Input ... : A:\seqlistsubstitute2.txt
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155 ...   7560
156 cacaaa... gagacteig tgatgaaet aagtgtgae gaatgttee agaaaaeeta   7620
157 tgaagaeaae tgeetgteag gattea tta tgteettea gaagegaat ggtgtgaaaa 7680
158 atgtetaeea tetgeetgtg aagtgatea tggttcaeea eggggegaeg eeeagtetea 7740
159 etggaagaat attggetete aetgaaret reetgaeaar eeetaeetea teaataata   7800
160 tgteegaata aaagaagagg tetttgtea aeagagaaat gtetaetaee aaeatetgaa 7860
161 ta...   7920
162 etgt...   7980
163 aagt...   8040
164 tggat...   8100
165 agaga...   8160
166 aagaggagga eagateatga eaetgaaaeg tgatgagaet ateeaggatg getgtgaeaa 8220
167 teaettetge aaggteaatg aaagaggaga gtaeatetgg gagaagagag teaeggttg 8280
168 eeeaeettte gatgaaeaea aatgtetgee tgagggagga aaaatcatga aaattecagg 8340
169 eaeetgetgt gaeaeatgta aegagreaga atgeaaggat ataattgeea agetgeageg 8400
170 tgteaaagte ggagaetgta aetetgaaga agaagtggae attetteaet gtgaggtaa   8460
171 atgte...   8520
172 etget...   8580
173 catet...   8640
174 gtgag...   8700
175 gagtgetget eagteeteet eaatettet eetgetetae ttett att eetgat   8760
176 eaataaagt ...   8802

178 <210> SEQ ID NO: 2
179 <211> LENGTH: 2313
180 <212> TYPE: PRT
181 <213> ORGANISM: Canis familiaris
182 <400> SEQUENCE: 2

RAW SEQUENCE LISTING

PATENT APPLICATION N: US/09/662,478C

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TIME: ...

File ... : A:\seqlistsubstitute2.txt

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```
... Asn ... ... Val ... ... ... Asp Arg Tyr ... Asn Lys Thr Tyr ...
...  ...                        ...                      ...         ...

... Leu Tyr Gly Asn ... Asn ... ... Ala ... Arg Asp ... Lys Thr ...
...              ...                 ...                    ...

... Glu Gly Thr Leu Thr Ser Asp ... Tyr Asp ... Ala Asn ... Trp Ala
...              ...            ...                     ...

230 Leu Ser Ser Gly Glu Gln Arg Cys Lys Arg Val Ser Pro Pro Ser ...
221          195              200              205

223 Pro Cys Asn Val Ser Ser Asp Glu Val Gln Gln Val Leu Trp Glu Gln
224     210              215              220

226 Cys Gln Leu Leu Lys Ser Ala Ser Val Phe Ala Arg Cys His Pro Leu
227 225              230              235              240

229 Val Asp Pro Glu Pro Phe Val Ala Leu Cys Glu Arg Thr Leu Cys Thr
230              245              250              255

232 Cys Val Gln Gly Met Glu Cys Pro Cys Ala Val Leu Leu Glu Tyr Ala
233              260              265              270

235 Arg Ala Cys Ala Gln Gln Gly Ile Val Leu Tyr Gly Trp Thr Asp His
236          275              280              285

238 Ser Val Cys Arg Pro Ala Cys Pro Ala Gly Met Glu Tyr Lys Glu Cys
239     290              295              300

241 Val Ser Pro Cys Thr Arg Thr Cys Gln Ser Leu His Val Lys Glu Val
242 305              310              315              320

244 Cys Gln Glu Gln Cys Val Asp Gly Cys Ser Cys Pro Glu Gly Gln Leu
245              325              330              335

247 Leu Asp Glu Gly His Tyr Val Gly Ser Ala Gln Cys Ser Cys Val His
248          340              345              350

250 Ala Gly Gln Arg Tyr Pro Pro Gly Ala Ser Leu Leu Gln Asp Tyr His
251          355              360              365

253 Thr Tyr Ile Cys Arg Asn Pro Leu Trp Ile Tyr Ser Asn Glu Ala Tyr
254     370              375              380

256 Pro Gly Glu Cys Leu Val Thr Gly Gln Ser His Phe Lys Ser Phe Asp
257              385              390              395
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE:
PATENT APPLICATION NO: US/09/662,478C   TIME:

Input File : A:\seqlistsubstitute2.txt
Output File : N:\CRF4\03122003\I662478C.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:24; N Res. 3,4,5,6,7,8,9

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,2,7,8,9,10,11,12,13,19,20,21,22,23,24,25,26,27,28,29,30
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Seq#:2; Line(s) 329,330,331,332,333,334,335,336,337,338,339,340,341,342,343

VERIFICATION SUMMARY
PATENT APPLICATION N: US/09/662,478C   DATE:
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